## WHAT IS CLAIMED IS:

1. A stepper motor, comprising:

a housing having a chamber therein, wherein the housing fame has an annular plate and a bottom plate coupled with the annular plate, and an included angle between the annular plate and the bottom plate set at ninety degree;

a stator having a space at a center thereof and wound coils on the stator to

10 generate induced magnetic field in the space, wherein the stator has a circumference
closely attached on the inner side of the annular plate of the housing frame;

a rotor received in the inner space of the stator to be driven for rotating by the induced magnetic field;

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- a motor front-plate which is mounted with a shaft, while shaft having a portion outside the housing and has a portion inside the chamber of the housing and coupled with the rotor is secured on the housing frame to close the chamber.
- 20 2. The stepper motor as defined in claim 1, wherein the bottom plate is coupled with the annular plate after the stator is fixed in the annular plate.
  - 3. The stepper motor as defined in claim 1, wherein the annular plate is made of galvanized steel and then is roll-molded into an annular shape.

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- 4. The stepper motor as defined in claim 1, wherein the annular plate is made of silicon steel and then is roll-molded into an annular shape.
- 5. The stepper motor as defined in claim 1, wherein the annular plate ismade of a magnetic permeable material.
  - 6. The stepper motor as defined in claim 5, wherein the bottom plate is coupled with the annular plate by spot welding.
- 7. The stepper motor as defined in claim 1, further comprising a plastic layer on outer sides of the annular plate and the bottom plate.